

Social Issues in Sustainability Assessment of Food

EFFoST seminar ,Sustainability assessment of the food chain: how to do it scientifically and practically?' within the seminar series on ,Sustainable Food Systems: Connecting Expertise in Academia and Industry'

Ulrike Eberle, PhD

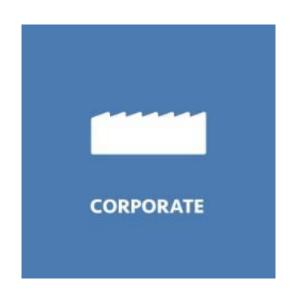
22 October 2021

corsus



- the sustainability consultancy







"We are enthusiastic about making value-oriented changes and inspiring you to embrace sustainability."

corsus



- the sustainability consultancy

HUMAN RIGHTS
DUE DILIGENCE
AND
SUPPLY CHAINS

SUSTAINABILITY STRATEGIES

SUSTAINABILITY ANALYSIS AND ASSESSMENT

PROCESS AND MODERATION

LIFE CYCLE
ASSESSMENT
AND
CARBON
FOOTPRINT

ECONOMIC
AND
SOCIAL
SUSTAINABILITY
ANALYSIS

SUSTAINABILITY REPORTING

COMMON GOOD BALANCE SHEET



corsus - the team



Dr. Ulrike EberleManaging Partner



Dr. Anke Butscher Managing Partner



Julius WenzigSenior Consultant



Nico Mumm Senior Consultant



Nynke Hack Consultant



Marius Rödder Senior Consultant



corsus - references

"Your expert opinion is extremely helpful for us and has definitely given us a few "aha" moments. We will be happy to use your advice again "

Marie Wendling, Sustainability Manager, Danone D-A-CH

"corsus has been advising us competently on all sustainability topics for many years and always brings the latest findings into the consultation on our sustainability strategy."

Ralph Beranek, Executive Director, Seeberger GmbH

"corsus helped us a lot with the conceptualisation and management of the entire project. Especially the structured approach, the professional moderation of the workshops paired with expertise in municipal processes and sustainability management help us to successfully implement the model project and to fulfil the mandate of the policy."

Arno Frost, Head of the Budget Department in the City of Kiel's Treasury and Tax Office

"The accompanying critical review and the well-founded life cycle assessment expertise of corsus greatly support us in integrating life cycle assessments into our enterprise resource planning system."

Urban Buschmann, Head Sustaianbility & Packaging Development, FRoSTA AG



FOOD & SUSTAINABILITY



Sustainable Development

"Sustainable development is a development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

Brundtlandt et al. 1987



UN Sustainable Development Goals





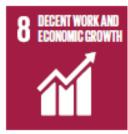


























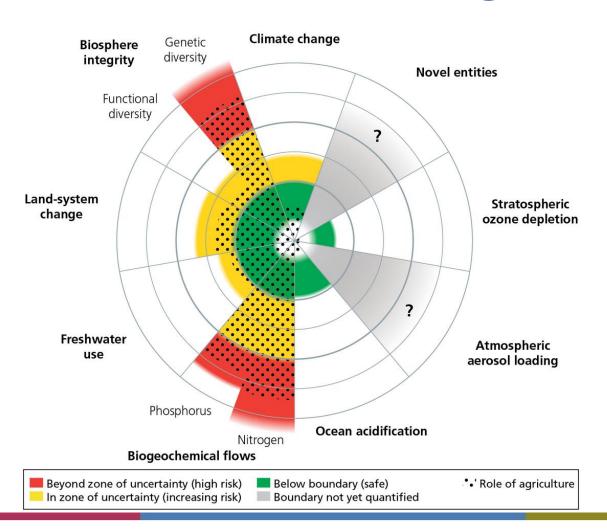




UN 2015



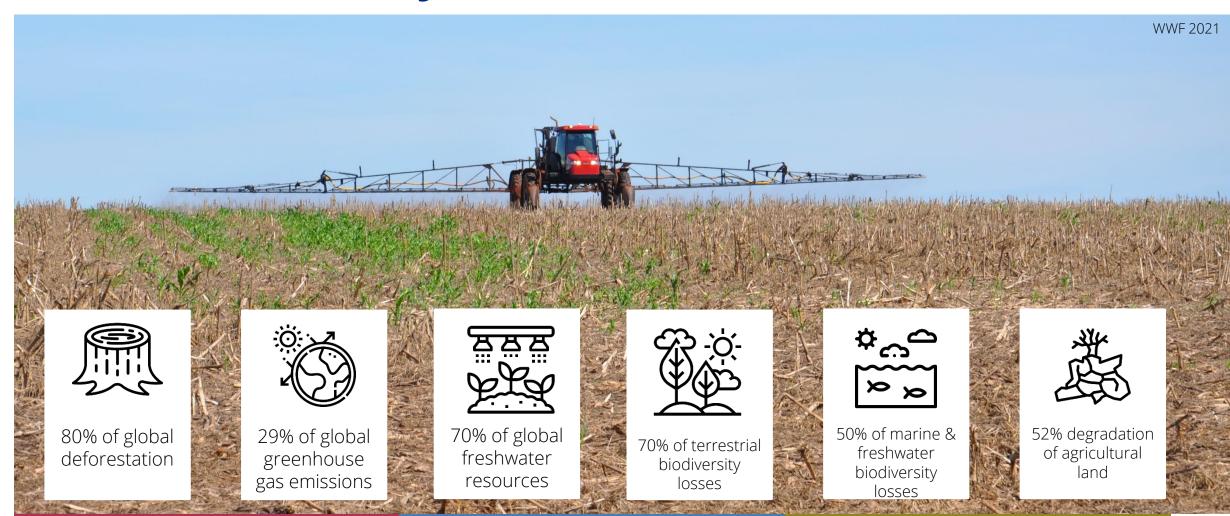
Planetary Boundaries and agriculture



Campbell et al. 2017

Our food system is not environmentally sustainable





Our food system is not socially sustainable



- Violation of human rights & ILO core labour standards
- Lacking access to clean drinking water & adequate sanitation
- Living wage is not standard
- Child labour is still a problem 246 million children are involved in child labour - that's one in six children aged 5-17
- Modern slavery is still a problem in some countries also and particularly in agriculture - 27 million people living in slavery worldwide
- One out of nine people is undernourished and suffers from hunger (795 million)
- Two out of nine people are overweight or obese (1.9 billion)



Dietary habits are changing

In recent decades, global meat consumption has increased dramatically.

The share of highly processed foods is continuously increasing worldwide.

Our eating habits are leading to an increase in diet-related diseases.

The land-consuming eating habits of the industrialised countries, but also increasingly of the emerging countries, significantly determine the land use of food production.



Sustainable food and nutrition

"Sustainable food & nutrition is environmentally friendly and health promoting, ethically responsible, adequate for everydays life and allowing for socio-cultural diversity."

Eberle/Hayn 2007



SUSTAINABILITY EVALUATION OF PRODUCTS



Companies and the SDGs

"Business is a vital partner in achieving the Sustainable Development Goals. Companies can contribute through their core activities, and we ask companies everywhere to assess their impact, set ambitious goals and communicate transparently about the results."

Ban Ki Moon 2015

































Identification of product-related targets and indicators



- In the research project "SDG Evaluation of Products" an approach was developed to assess the sustainability of products
- The 169 targets of the 17 SDGs were analysed with regard to the possible contribution of products (and companies) to their achievement
- Result: 59 of the 169 targets could be related to products and services
- On this basis 45 indicators were defined
 - 25 directly measure the contribution of the product or service (C1)
 - 20 measure the contribution of the companies involved along the life cycle (C2)
- All C2-indicators are measure socio-economic impacts



Socio-economic indicators

#	SDG	INDICATOR	#	SDG	INDICATOR
C2.1	1.1	Workers earning below poverty line of 1.90\$/day	C2.4	2.5	Number of used breeds / varieties
C2.2	1.3	Coverage of social security support	C2.5	3.8 3.9, 8.8	Share of employees covered by health insurance or a public health system Number of, time loss or frequency rates of fatal and non-fatal occupational
C2.3	2.4, 3.6, 5.1, 6.5, 6.6, 7.3, 8.7, 8.8,	Coverage of product-related sustainability (risk) management: a: sustainable agriculture	C2.7	3.9, 8.8 4.4, 4.7, 13.3, 16.5	injuries Access of workers to protective clothing Share of employees trained in sustainability issues:
	9.3, 12.2, 12.3, 12.4, 13.2, 14.2,	b: driver/passenger safety/reduction of accidents c: equal opportunities d: water use & scarcity	02.0	4.4, 4.7, 13.3, 10.3	a: ICT skills b: sustainability in general
	15.1-15.6, 15.8, 15.9, 15.a, 15.b,	e: natural resources	C2.9	4.5	c: climate change d: corruption prevention Average hours of training per employee by share of men/woman
	16.5, 16.a, 17.7, 17.11, 17.16, 17.17	f: food losses g: chemicals h: waste i: climate change	C2.10 C2.11	5.1, 8.5 5.5	Ratio of average hourly wage of men to women Share of women in managerial positions at all hierarchy levels
			C2.12	6.1	Availability of safely managed drinking water at work Availability of lockable sanitation at work, including a hand-washing facility
		j: marine biodiversity	C2.14	6.3	with soap and water Percentage of safely treated wastewater flows
		k: terrestrial & freshwater biodiversity l: patents on natural resources	C2.15 C2.16	8.6 8.7, 8.8	Share of employees (incl. apprenticeships) under 24 Fulfillment of ILO conventions by sex
		m: corruption prevention n: human rights o: promotion of environmental sound technologies in developing countries p: energy efficiency			a: freedom of assembly b: child work c: forced labour d: discrimination
		q: small scale suppliers/industry borrowers in supply chain (particular from LDC) r: share of products/materials from DC	C2.17	9.5 10.2	e: collective bargaining Investments in R&D Relative poverty rate (50% of median disposable income)
		s: Investments in conservation and sustainable use of biodiversity/ecosystems t: Engagement in multi-stakeholder partnerships for sustainable development	C2.19 C2.20	10.3 12.6, 12.8, 14.4	Palma Ratio Sustainability information about the product (incl. value chain) publicly available

Eberle et al. 2020a, pp. 29/30

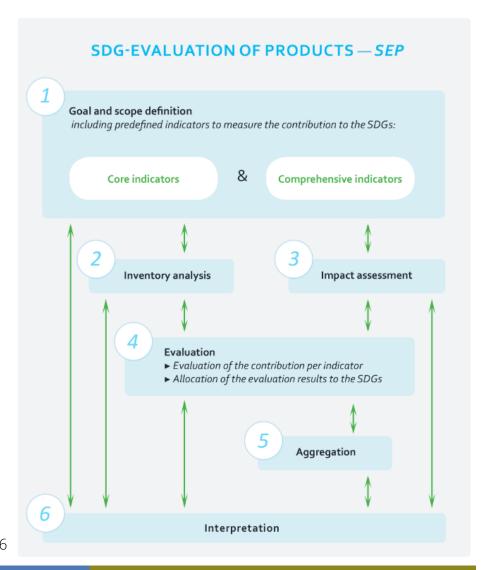
Sustainability Evaluation of Products



- SEP

- System analysis: This is the basis for carrying out a sustainability assessment, as the system under consideration is analysed here. At SEP, this is carried out analogously to the procedure described in ISO 14040/44.
- **Sustainability Indicators**: These are *SEP*'s measurements and are pre-defined. This ensures that contributions to the SDGs of Agenda 2030 are measured and that this is done in a uniform manner. In *SEP*, 45 indicators have been defined, 22 of which are core indicators that must be used in a product sustainability evaluation.
- Sustainability Evaluation: This is the core of the method and aims to measure the contribution of the product or service to the respective SDGs using the defined indicators. At the level of the individual indicators, the result shows in which of the addressed sustainability issues the product is already good and in which there is still need for improvement.

Eberle et al. 2020a, p. 6



Sustainability Evaluation of Products **COIJUJ**



- SEP











SUSTAINABILITY EVALUATION OF PRODUCTS AND SERVICES



INDICATOR PROFILES

SDG-EVALUATION OF PRODUCTS - SEP



Download:

https://www.sdg-evaluation.com/

22 October 2021 Dr. Ulrike Eberle



SUSTAINABILITY EVALUATION OF PRODUCTS – ASSESSMENT OF SOCIOECONOMIC ISSUES

Assessment of socioeconomic impacts



+1

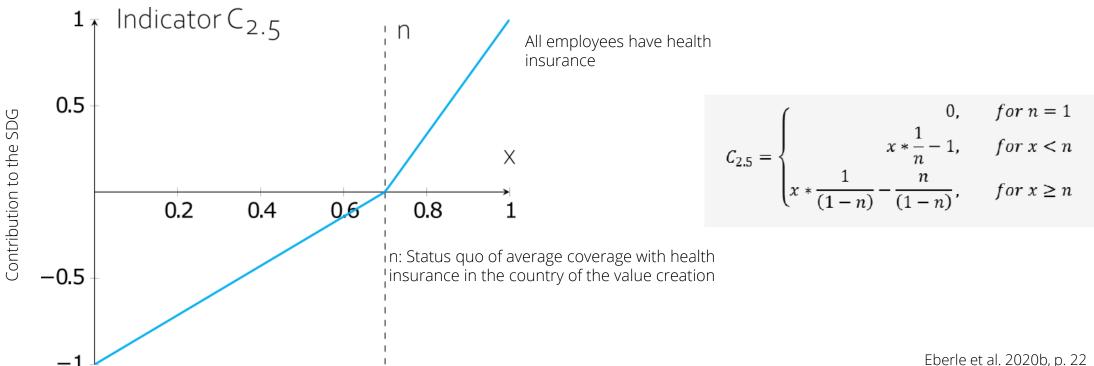
- +1: the product contributes fully to the achievement of the SDG
- 0 : the status quo is maintained
- -1 : the product has negative impacts

- Definition of status quo in the specific country
 - Assessment possible at any time and compatible with life cycle assessment
 - Continuous adjustment of the status quo
 - In some countries, data may still be scarce, but may become increasingly available in the future



Indicator C2.5 Health insurance

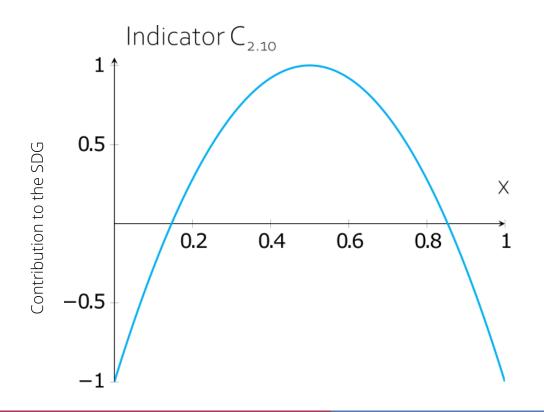
SDG 3.8: Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all



Indicator C2.10 Equal wages for men and women



SDG 8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value

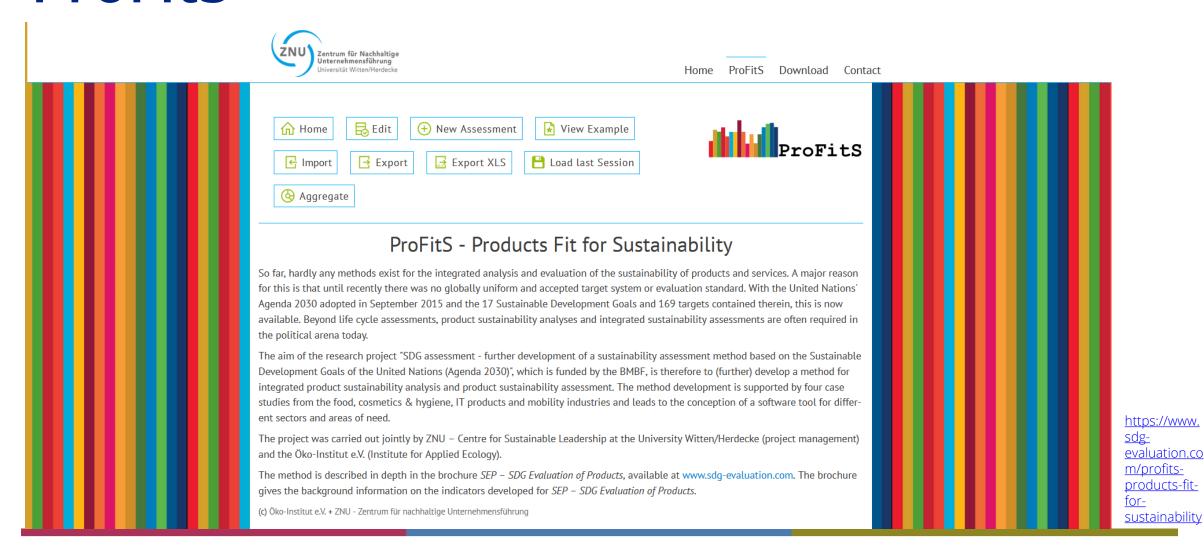


$$C_{2.10} = -8 * (x - 0.5)^2 + 1$$

Eberle et al. 2020b, p. 27



ProFitS





I AM HAPPY TO ANSWER YOUR QUESTIONS



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www.corsus.de

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